

EXHIBIT A

Search for

Limits Preview/Index History Clipboard Details

Format: GenBank FASTA Graphics More Formats ▼

Download ▼

Save ▼

Links ▼

GenBank: U32664.1

Human adenovirus type 35 pVIII (L4) gene, early region 3 (E3) genes, and fiber (L5) gene, complete cds

Change Region Shown

Customize View

Features Sequence

Analyze This Sequence

LOCUS HAU32664 5301 bp DNA linear VRL 13-SEP-1995
DEFINITION Human adenovirus type 35 pVIII (L4) gene, early region 3 (E3) genes, and fiber (L5) gene, complete cds.

Run BLAST

Pick Primers

ACCESSION U32664
VERSION U32664.1 GI:984529

KEYWORDS
SOURCE Human adenovirus 35
ORGANISM Human adenovirus 35

REFERENCE 1 (bases 1247 to 3224)
AUTHORS Flomenberg, P.R., Chen, M. and Horwitz, M.S.
TITLE Sequence and genetic organization of adenovirus type 35 early region 3

J. Virol. 62 (11), 4431-4437 (1988)
J. Virol. 62 (11), 4431-4437 (1988)
3172347

REFERENCE 2 (bases 1 to 5301)
AUTHORS Basler, C.F., Flomenberg, P.F., Chen, M. and Horwitz, M.S.
TITLE Direct Submission

Submitted (28-JUL-1995) Christopher Basler, Microbiology and Immunology, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Chanin Building, Room 515, Bronx, NY 10461, USA

Location/Qualifiers
1..5301
/organism="Human adenovirus 35"
/mol_type="genomic DNA"
/strain="Halden"
/db_xref="taxon:10522"
/map="78-91 map units"

4..687
/note="L4; late mRNA family 4; structural protein"
/codon_start=1
/product="pVIII"
/protein_id="AAA75322.1"
/db_xref="GI:984530"

/translation="MSKEIPTPYMWSYOPQWGLAAGASQDYSTRMNL SAGPSMISRV
NDIRAYRNQILLEQSA LTTTPROHLNPRNWPALVYGSPAPTIVLLPRDAQAEVQNT
NAGAQLAGGSTLORHRPRHNIKRLWIRGRGILNDESVSSPLGLRPDGI FQIAGGGRS
SFTPRQAVLTLESSSSOPRSGGIGTVQFVEEFTPSYVFNPFSGSPGHYPDEFIPNFDA
ISESYVDGYD"

687..1004
/note="E3; early region 3; Ad2 E3 12.5k homolog"
/codon_start=1
/product="12.2 kDa protein"
/protein_id="AAA75323.1"
/db_xref="GI:984531"

/translation="MSGDAAE LSRRLHLDHCRFRFCFARELIEFIYFELPKDHPQGPA
HGVRITIEGKIDSLRLQIFSGRPVLI ERDQGN TTVSYICINRPLGHESLCCLMCTEF
NKN"

958..1353
/note="E3; early region 3; Ad3 E3 16.0k homolog; possible
Ad2 E3 6.7k homolog"
/codon_start=1
/product="16.0 kDa protein"
/protein_id="AAA75324.1"
/db_xref="GI:984532"

/translation="MKAFVLCVLSLIKTELRLSYGLPLLPQGFYNOKNKTFFPVVODS
VNFITPTKLEAQLHRFSRSIFPTNTTFKTGGELHGLPTENPWVEAGLVVLGILAGG
LVIIICGLYTPCFTFLVVLWYFKKNGPY"

993..998
/note="L4 polyA signal"

1187..3679
/note="intron excised to form E3 mRNA a"

1187..3291
/note="intron excised to form E3 mRNA d"

1187..3008
/note="intron excised to form E3 mRNA c"

1187..2418
/note="intron excised to form E3 mRNA b"

1338..1838
/note="E3; early region 3; class I major
histocompatibility binding protein; Ad2 gp19k homolog"
/codon_start=1
/product="18.5 kDa protein"
/protein_id="AAA75325.1"
/db_xref="GI:984533"

polvA signal

intron

intron

intron

intron

intron

Recent activity

[Turn Off](#) [Clear](#)

Human adenovirus type 35 pVIII (L4) gene, early region U32664 (1) Nucleotide

[See more...](#)

All links from this record

Related sequences

Full text in PMC

Protein

PubMed

PubMed (weighted)

Taxonomy

LinkOut

1681 agtattctct atggcctoct agcaaggaca acatogtaac gttotccatt gottattgct
1741 tctgcctctg cctctctact gctttactgt gcgtatgaat acacctgctt gtaaccactc
1801 gcttccaaaa cgcgaataac aaagaaaaaa tgccttaucc tctttctgtt taccagcctg
1861 gcttctctta cctctctcat atttgcagca atttgcactg cctctcaccg acaaacagtc
1921 gctctctatc caotaggaca taattacact otcattagac ccccaatcac ttcagaggto
1981 atotggacca aactgggaag cgttgattac tttgatataa togttaacaa aaaaaaacca
2041 ataattagtaa ctgcaacat acaaaatott acattgatta atgttagcaa agtttaoago
2101 gtttactatt atgttatga cagatacagt agtcaatata gaattactt gttctgtatt
2161 cccaggttga aaccacgcaa atgccaant atgccaaga ttcgatccga tgcacattct
2221 ctgaaaactt ttacattctc caccacaccc gacaaaaaa acatccacga ttcacgtatt
2281 gcaattgttg cagcgggtgc agtggtagt gacataataa taatatgcat gcttttatat
2341 gcttctctgt acaaaagtt tcatctttaa aaacaagato tctactaag gottaacatt
2401 taatttcttt ttataongcc atggtttoca ctaccacatt ccttatgott notagtctcg
2461 caactctgac ttctgctcgc tcacacctca ctgtaactat aggttcaaac tgcacactaa
2521 aaggacacta agtgggtcat gtottttggg gagaatata tgaacatgaa tgztttcaaa
2581 aacctgtaga ccaacotggt agatttttct gcaacggcag agacctaaac atttatcag
2641 tgacagcaaa tgcaaaaggo ttctattatg gacccgacta taagtagat ttagattata
2701 aacttatgt aotgootat aooootocac caccocgcac aactacttct totagongoa
2761 gtgtctgtaa caatacaatt tccaatocaa ootttgcgc gcttttaaaa ogcactgtga
2821 ataattctat aacttgcac acacaaattt ccaattcaac aatcagcatc atcgtgcag
2881 tgcaaatgg aatatctatt ctgtttttta ccaataccta ctacgctgac tgcataagaa
2941 aagcaaaaaa taaggtgat coattactta gatttgatat ttaatttgtt cttttttttt
3001 atttaoagta tggtagaacac caatcatggt acctagaaat ttcttcttca ccatactcat
3061 ctgtgctttt aatgtttgc ctactttcac agcagtagcc aagcaacccc cagactgtat
3121 aggtgctttt gcttccatag caacttttgc tttgttact tgcattgccc tatgtagcat
3181 agtctgctgt gttattaat ttttccaaact tctagactgg atcctgtgac gaattgccta
3241 cctgcgcaac catcccgcat acgcacacca aaatatcgcg gcaattctta gactcatcta
3301 aacccatgca ggotatacta ccaatttttt tgcctctatt gcttccctao gctgtctcaa
3361 cccagctgca ctatagtagt cccacagaaac acottagaaa atgcaaatto caaacacctg
3421 ggttaatttt tgcctgtat ogagaaaaat cagaaatcco ccaaaattta ataatgattg
3481 ctggaataat taataatact ttttgaccca taatttontt ttgatatac cccctatttg
3541 attttgctg kaatgctccc aatgcacatg atcatccaca agacccagag gaacacattc
3601 cccacacaaa catgcaacat ccaatagcgc taatagatta ckaaaatgaa ccaacacccc
3661 caotactccc tgcattaggt tacttaacc taacccgagg akatgactga aacactcacc
3721 aontocaaat cggccgagga tctgctogat atggaacggc gcttctcaga aonaogactt
3781 gcccacatca gcatccgca gacgcaggaa ogogtggaaa aagagctcag agatgtcatc
3841 caaatccacc aatgcacaaa aggcatactc tgtttgtaa aacaagccaa katatccatc
3901 gagatcaccc ctactaccca tgcactctct tacgaacttg kcccccacag acaaaattt
3961 aactgcatgg tgggaatcaa cccatagtt atcacccac aaagtggaaa tactaagggt
4021 tgcattcact gticctcgca ttccatogag tgcacotaca cootgotgaa gaocotatgc
4081 ggcctaagg acctgtacc aatgaattaa aaaaaatga ttaataaaaa atcacttact
4141 tgaactcago aataaggctc ctgttgaat ttctccagc cagcacctca cttccctctt
4201 cccacactct gtattctaaa ccccttccg cgcataactt totccactact ttaaaaggga
4261 tgtaaaattt tagotccctt ootgtaccca caactctcat gtotttcttc ccagatgaac
4321 aagagagtcg ggtcgaatga ctcttccaac cctgtotao ocatgaaga tgaagacacc
4381 tcccaacacc ccttttataa cccagggttt atttcccaa atggcttoso acaaaagcca
4441 gaaggagttc ttacttttaa atgttttaac ccaatacaca ccccgaggc atctctacag
4501 ctaaaagtg gaggggagat tacagtggat gacactgatg gtacottaca aaaaaacata
4561 cgtgtacag caccattac taataataat caotgttag aotatootat tggaaatgga
4621 ttgaasctc aaaaacataa actatgtgcc aaattggaaa atgggttaa atttaacac
4681 ggtgacattt gtataaagga tagtattaac aacttatgga ctggaataaa cctccacct
4741 aaoigtcaaa ttgtgaaaa caotaataca aatgtatgaa aacttacttt agtattagta
4801 aaaaatggag ggttgttaa tggctacgtg totctagttg gtgtatcaga cactgtgaac
4861 caaatgttaa ccaaaagac agcaaaccto caattaagat tatatttga cctctotgga
4921 aatctattaa ctgaggaatc agacttaaaa atttccacta aaaaataaat ttctacaggc
4981 accagtgaac ctgtagccag cagcaaaagcc ttatgcca gtaactacag ttatcccttc
5041 aacacocata ctaggatag tgaaaactac attcattgaa tatgttacta catgactagt
5101 tatgatagaa gtctatttcc ottgaacatt totataatgc taacacagcc tatgatttot
5161 tccaatgttg cctatgccat acaattttaa tggaaatcaa atgcaagtga atotccagaa
5221 agcaacatag ctacgctgac caaatccccc tttttcttt ctacattac aagaagagac
5281 aactaaaaa aagtttaagt g

//

Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Privacy Statement | Freedom of Information Act | Disclaimer